



**TO-92MOD Plastic-Encapsulate Transistors**

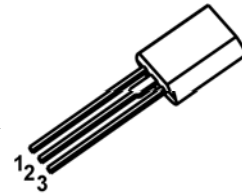
**2SB892** TRANSISTOR (PNP)

**FEATURE**

- Power Supplies, Relay Drivers, Lamp Drivers, and Automotive Wiring
- Low Saturation Voltage.
- Large Current Capacity and Wide ASO.

**TO-92MOD**

1. EMITTER
2. COLLECTOR
3. BASE

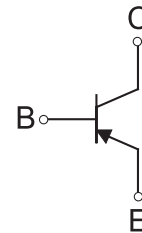


**MARKING**



Òì JG=Device code  
 Solid dot= Green molding compound device,  
 if none, the normal device  
 XXX=Code

**Equivalent Circuit**



**ORDERING INFORMATION**

Part Number	Package	Packing Method	Pack Quantity
2SÒì J2	TO-92MOD	Bulk	500pcs/Bag
2SB892-TA	TO-92MOD	Tape	2000pcs/Box

**MAXIMUM RATINGS\* T<sub>a</sub>=25°C unless otherwise noted**

Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector-Base Voltage	-60	V
V <sub>CE0</sub>	Collector-Emitter Voltage	-50	V
V <sub>EB0</sub>	Emitter-Base Voltage	-6	V
I <sub>C</sub>	Collector Current -Continuous	-2	A
P <sub>C</sub>	Collector Dissipation	1	W
T <sub>J</sub> , T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55-150	°C

## ELECTRICAL CHARACTERISTICS

$T_a=25^\circ\text{C}$  unless otherwise specified

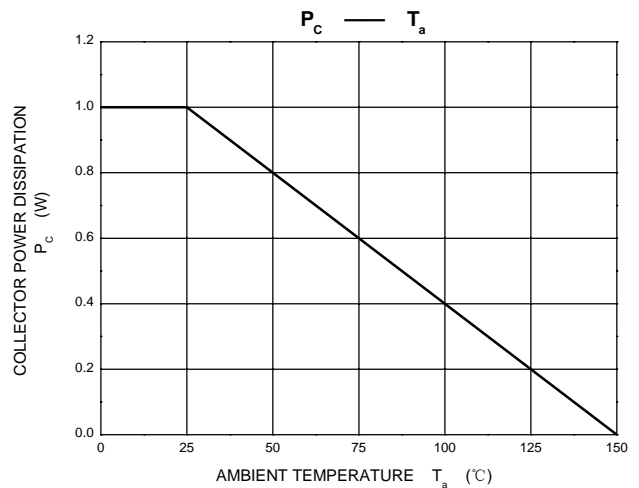
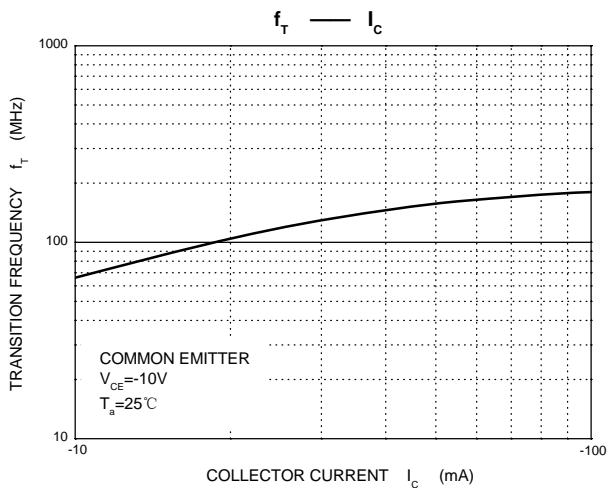
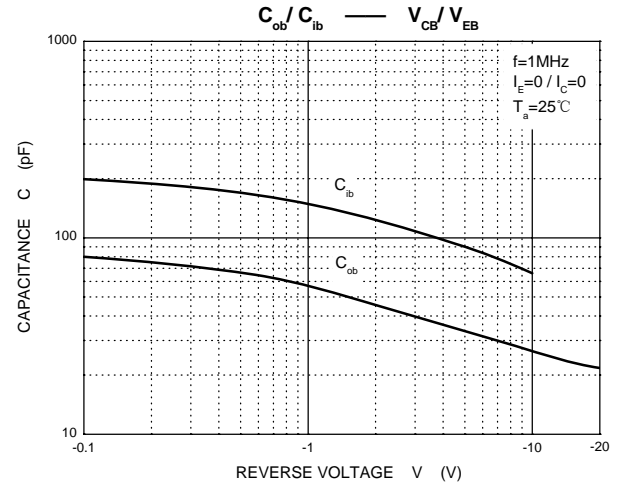
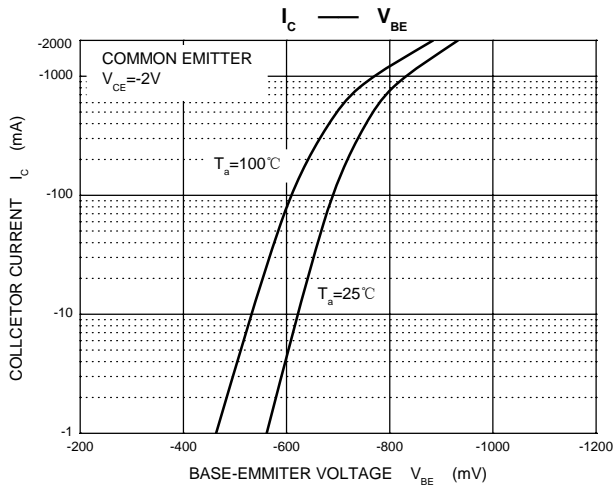
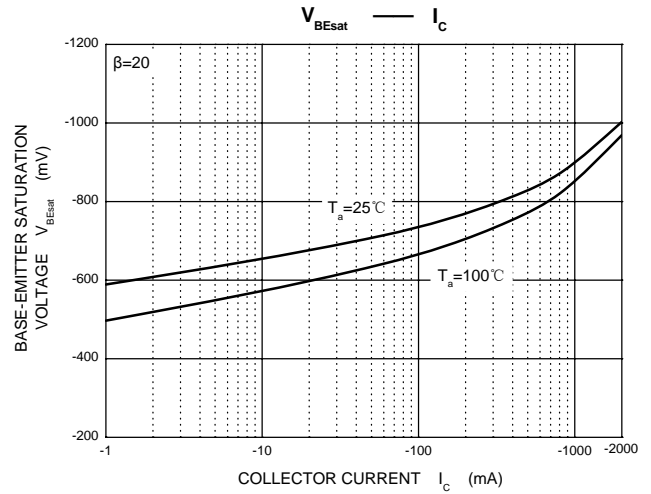
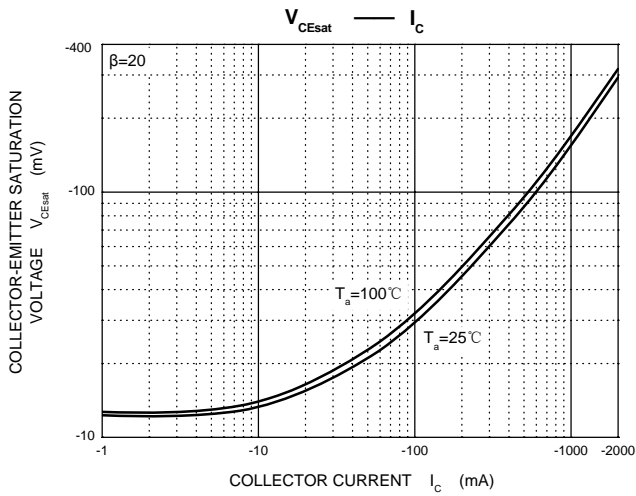
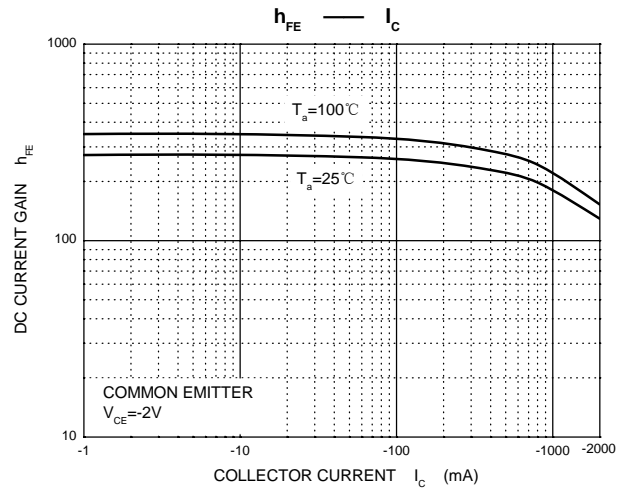
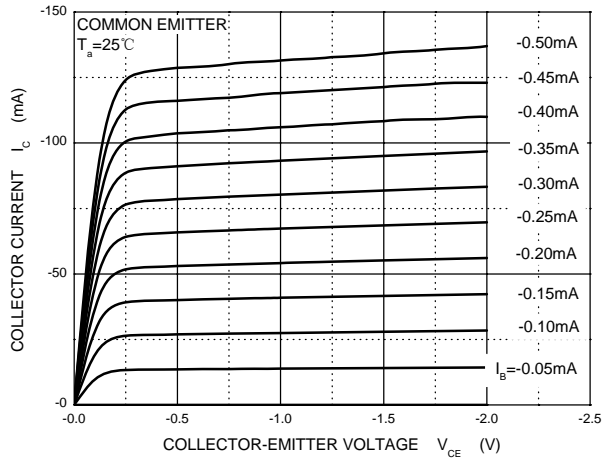
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	$V(\text{BR})_{\text{CBO}}$	$I_C = -100\mu\text{A}$ , $I_E = 0$	-60		V
Collector-emitter breakdown voltage	$V(\text{BR})_{\text{CEO}}$	$I_C = -1\text{mA}$ , $I_B = 0$	-50		V
Emitter-base breakdown voltage	$V(\text{BR})_{\text{EBO}}$	$I_E = -100\mu\text{A}$ , $I_C = 0$	-6		V
Collector cut-off current	$I_{\text{CBO}}$	$V_{\text{CB}} = -50\text{V}$ , $I_E = 0$		-0.1	$\mu\text{A}$
Emitter cut-off current	$I_{\text{EBO}}$	$V_{\text{EB}} = -4\text{V}$ , $I_C = 0$		-0.1	$\mu\text{A}$
DC current gain	$h_{\text{FE}(1)}$	$V_{\text{CE}} = -2\text{V}$ , $I_C = -100\text{mA}$	100	560	
	$h_{\text{FE}(2)}$	$V_{\text{CE}} = -2\text{V}$ , $I_C = -1.5\text{A}$	40		
Collector-emitter saturation voltage	$V_{\text{CE}(\text{sat})}$	$I_C = -1\text{A}$ , $I_B = -50\text{mA}$		-0.4	V
Base-emitter saturation voltage	$V_{\text{BE}(\text{sat})}$	$I_C = -1\text{A}$ , $I_B = -50\text{mA}$		-1.2	V
Transition frequency	$f_T$	$V_{\text{CE}} = -10\text{V}$ , $I_C = -50\text{mA}$	150		MHz

### CLASSIFICATION OF $h_{\text{FE}(1)}$

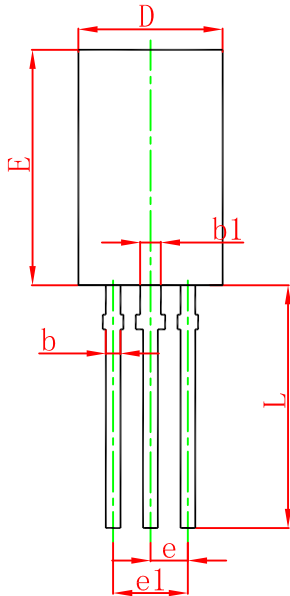
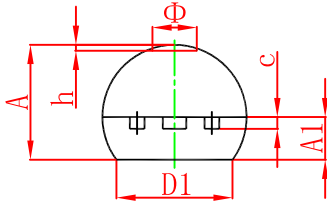
Rank	R	S	T	U
Range	100-200	140-280	200-400	280-560

# Typical Characteristics

Static Characteristic

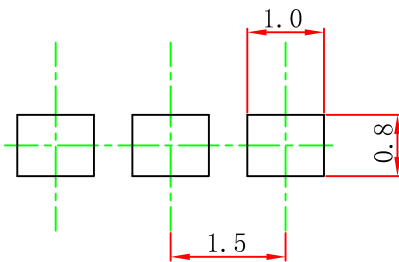


## TO-92MOD Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	4.800	5.000	0.189	0.197
A1	1.730	2.030	0.068	0.080
b	0.440	0.600	0.017	0.024
b1	0.940	1.100	0.037	0.043
c	0.350	0.450	0.014	0.018
D	5.900	6.100	0.232	0.240
D1	4.000		0.157	
E	8.500	8.700	0.335	0.343
e	1.500 TYP.		0.059 TYP.	
e1	2.900	3.100	0.114	0.122
L	13.800	14.200	0.543	0.559
$\Phi$		1.600		0.063
h	0.000	0.380	0.000	0.015

## TO-92MOD Suggested Pad Layout



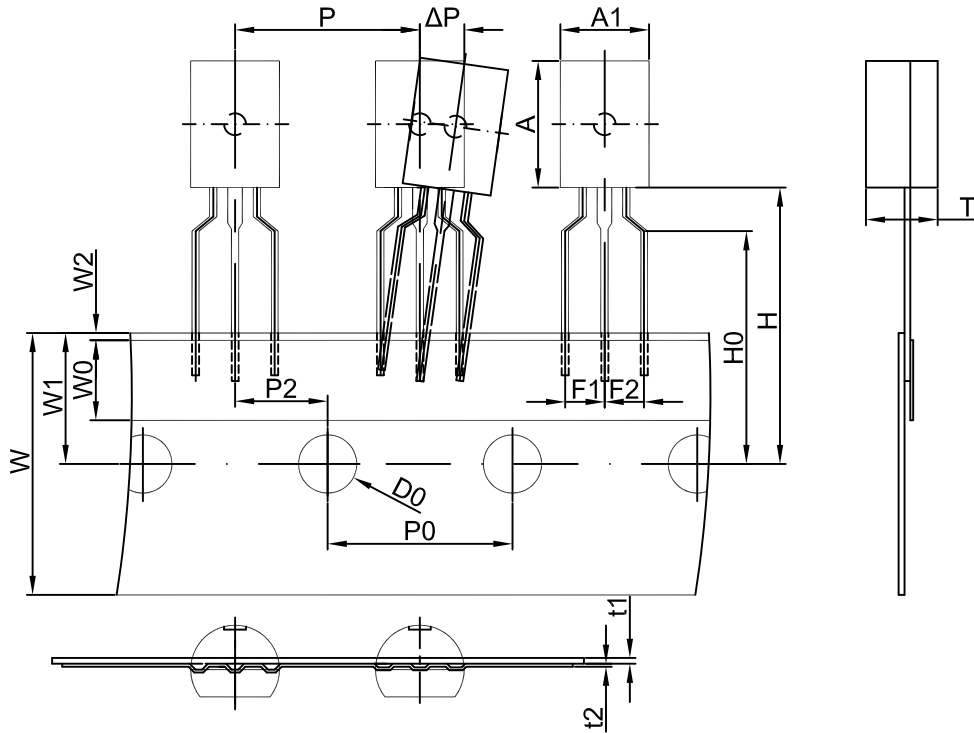
### Note:

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05$ mm.
3. The pad layout is for reference purposes only.

### NOTICE

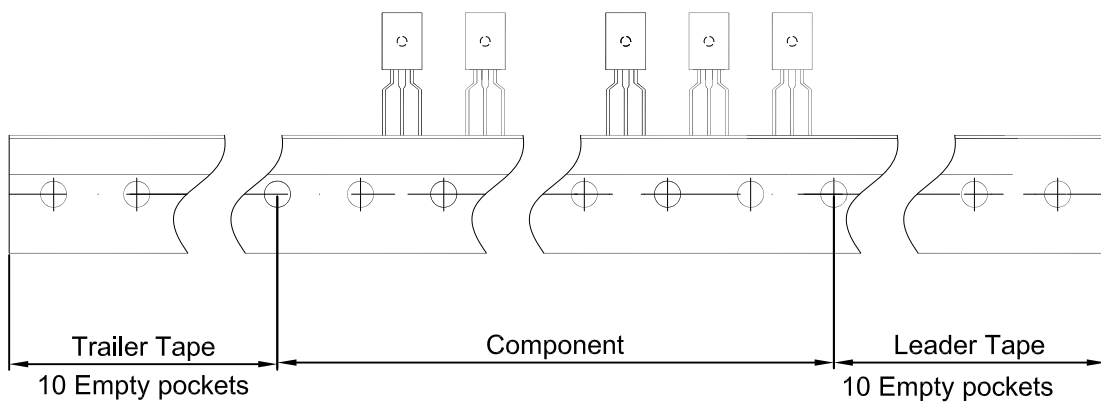
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# TO-92MOD PACKAGE TAPING DIMENSION



Dimensions are in millimeter

A1	A	T	P	P0	P2	F1	F2	W
6.0	8.6	4.9	12.7	12.7	6.35	2.5	2.5	18.0
W0	W1	W2	H	H0	D0	t1	t2	ΔP
6.0	9.0	1.0	19.0	16.0	4.0	0.4	0.2	0



Package	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92MOD	2000 pcs	333×245×43	20,000 pcs	573×404×266